

THAT WHICH IS CLAIMED:

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1. A bandwidth allocation manager for determining bandwidth allocation in a digital broadband delivery system, wherein the bandwidth allocation manager dynamically assigns a content delivery mode to a plurality of digital transmission channels based at least partially on an allocation criteria received from a subscriber.

10 2. The bandwidth allocation manager of claim 1, wherein the content delivery mode is selected from the group comprising pay-per-view, video-on-demand, and near video-on-demand.

15 3. The bandwidth allocation manager of claim 1, wherein the content delivery mode comprises a video content delivery mode wherein at least two instances of a same video content are transmitted at time-spaced intervals of varying length.

20 4. The bandwidth allocation manager of claim 1, wherein the allocation criteria received from the subscriber is selected from the group comprising a video-on-demand request, a subscriber reservation request, a subscriber profile, and a subscriber preference.

25 5. The bandwidth allocation manager of claim 1, wherein the allocation criteria received from the subscriber comprises a plurality of subscriber reservation requests with at least two assigned priorities.

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6. The bandwidth allocation manager of claim 1, wherein the bandwidth allocation manager processes a plurality of allocation criteria according to a statistical model to determine a bandwidth allocation schedule.

7. ~~A bandwidth allocation system in a digital broadband delivery system comprising:
a bandwidth allocation manager that determines a bandwidth allocation schedule in the digital
broadband delivery system based at least partially on an allocation criteria received from a subscriber
by assigning a content delivery mode to a plurality of digital transmission channels; and
5 a network manager in communication with the bandwidth allocation manager, wherein the
network manager allocates the predetermined bandwidth according to the bandwidth allocation
schedule determined by the bandwidth allocation manager.~~

8. ~~The bandwidth allocation system of claim 7, further comprising a video-on-demand (VOD)
10 application server in communication with the bandwidth allocation manager, wherein the VOD
application server transmits a list of available content delivery modes to the bandwidth allocation
manager.~~

9. ~~The bandwidth allocation system of claim 7, wherein the content delivery mode is selected
15 from the group comprising pay-per-view, video-on-demand, and near video-on-demand.~~

10. ~~The bandwidth allocation system of claim 7, wherein the allocation criteria received from the
subscriber is selected from the group comprising a video-on-demand request, a subscriber reservation
request, a subscriber profile, and a subscriber preference.~~

11. ~~The bandwidth allocation system of claim 7, wherein the allocation criteria received from the
subscriber comprises a plurality of subscriber reservation requests with at least two assigned
priorities.~~

12. ~~The bandwidth allocation system of claim 7, wherein the bandwidth allocation manager
processes a plurality of allocation criteria according to a statistical model to determine the bandwidth
allocation schedule.~~

13. ~~The bandwidth allocation system of claim 7, wherein the content delivery mode comprises a
30 video content delivery mode wherein at least two instances of a same video content are transmitted at
time-spaced intervals of varying length.~~

14. ~~A digital home communication terminal for use in a digital broadband delivery system
containing a bandwidth allocation manager comprising:
35 an interface that receives a subscriber criteria; and
a tuner that transmits the subscriber criteria to the bandwidth allocation manager for use in
dynamically allocating bandwidth in the digital broadband delivery system.~~

15. The digital home communication terminal of claim 14, further comprising a tuner that receives channel allocation information from the bandwidth allocation manager and processes the information into a format suitable for presentation to a subscriber.

16. The digital home communication terminal of claim 15, wherein the channel allocation information comprises VOD catalogue data.

17. The digital home communication terminal of claim 14, wherein the allocation criteria received from the subscriber is selected from the group comprising a video-on-demand request, a subscriber reservation request, a subscriber profile, and a subscriber preference.

18. The digital home communication terminal of claim 14, wherein the allocation criteria received from the subscriber comprises a plurality of subscriber reservation requests with at least two assigned priorities.

19. A method for allocating bandwidth in a digital broadband delivery system comprising: initiating a bandwidth allocation event; receiving an allocation criteria from a subscriber; and dynamically determining a bandwidth allocation schedule based at least partially on the allocation criteria received from the subscriber.

20. The method of claim 19, wherein determining a bandwidth allocation schedule based at least partially on the allocation criteria received from a subscriber comprises determining a bandwidth allocation schedule by dynamically assigning a content delivery mode to a plurality of digital transmission channels.

21. The method of claim 20, wherein the content delivery mode is selected from the group comprising pay-per-view, video-on-demand, and near video-on-demand.

22. The method of claim 20, wherein the content delivery mode comprises a content delivery mode wherein at least two instances of a same video content are transmitted at predetermined time-spaced intervals of varying length.

23. The method of claim 19, wherein receiving the allocation criteria received from a subscriber comprises receiving an allocation criteria selected from the group comprising a video-on-demand request, a subscriber reservation request, a subscriber profile, and a subscriber preference.

24. The method of claim 19, wherein receiving the allocation criteria received from a subscriber comprises receiving an allocation criteria comprising a plurality of subscriber reservation requests with at least two assigned priorities.

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25. The method of claim 19, wherein dynamically determining a bandwidth allocation schedule based at least partially on the allocation criteria received from the subscriber includes processing the allocation criteria according to a statistical model.

10 26. The method of claim 19, further comprising allocating bandwidth in the digital broadband delivery system according to the bandwidth allocation schedule.

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